

# From Humans to Machines: The Rise of Robotics and the implications of Declining Global Population.

The world is on the cusp of a seismic shift. With declining birth rates and increasing aging population, many countries are facing demographic crisis. But as the human workforce shrinks, another force is rising to take its place: robots.

According to the report by United Federation of Robotics the global Robotics market is expected to grow more than 30-40 percent in upcoming years.

Talking about robotics technology in India, India achieved a milestone after creating its first humanoid robot named as AcYut. Many more Robots were created for different purposes like IRIS as a teacher robot, Mitra designed for customer services- often seen in Malls and Airports; Anushka was a robot humanoid built with parts from scrap- demonstrating frugal innovation in robotics; Vyommitra a female humanoid Robot was designed for space missions and explorations.

Growth of Robotics and AI technology has created a competition among countries now days. Many big businessmen and MNC's are funding for creation of more developed technology as Better technology has positively impacted economy of nations and sustainable growth.

It's estimated till 2040 there could be a billion bipedal robots which will be controlled by our minds and possibly

would be more advance and stronger than biological ones.

Rise of Robotics and AI has many positive effects and one of it is filling the gap of labor shortage in countries with Low birth rate and longer life spans leading to more aging population. By 2030 U.S. could face shortage of 2 Million jobs in manufacturing sector alone as projected by Global Banking and Investment firm Goldman Sachs.

Recently an article published in THE HINDU newspaper showcased that South Korea would be the first country to disappear from earth till 2100 and reason behind it is Demographic crisis. Demographic crisis has become an issue of concern for countries. The major reason behind it is rising cost of Living, Declining quality of Life and people giving more importance to Career over Marriage. Same is happening with Russia and Japan thus is a complex and multi faced challenge.

As these nations face aging population, shrinkage workforces, and increasing pension & healthcare burdens, the integration of Robotics and AI may offer a vital lifeline ...or perhaps it will simply usher in a new era where robots graciously allow humans to coexist-as long as we behave, of course.